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System 800 includes a multiple aperture 804, a controller 834, an image detector 812, a storage unit 836, an image processor 838, a movement detector 814 and an illumination unit 830. The controller 834 is connected to the multiple apertures 804, the image detector 812, the storage unit 836, movement detector 814 and to the illumination unit 830. The storage unit 836 is further connected to the image processor 838. The multiple apertures 804 include a plurality of apertures, generally referenced 802, where each aperture can be activated to be open or closed. It is noted that when an aperture is open it is at least transparent to a predetermined degree to light, and when an aperture is closed, it substantially prevents the travel of light therethrough. Any type of controllable light valve can be used to construct each of the apertures. Movement detector 814 detects the movement of image detector 812. The detected movement can be a linear displacement, an angular displacement, and the derivatives thereof such as velocity, acceleration, and the like.

In the Claims:

Please cancel claims 5, 8, 18 and 19 without prejudice. Please amend claims 1 and 20 to read as follows:

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1. (AMENDED) Stereoscopic device comprising:

at least two apertures, each said apertures including a light valve, each said light valves being operative to open at a different predetermined timing;

a multi wavelength light sensor array, and

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a controllable multi wavelength illumination unit illuminating a scene, said controllable multi wavelength illumination unit producing at least two alternating beams of light, each said beams of light characterized as being in a different range of wavelengths,

a controller coupled with said multi wavelength light sensor array, said controller timing the operation of said multi wavelength light sensor array, to detect a plurality of images, for each said images only a single one of said light valves exhibits an open state and only one of said at least two alternating beams of light illuminates the detected scene.

20. (AMENDED) Method for detecting a stereoscopic image comprising the steps of:

alternating between at least two apertures, directed at an object;
producing a sequence of at least two illumination beams, at different ranges of wavelengths;
controlling the operation of said at least two apertures and the sequence of said at least two illumination beams, such that for each said image, only a single one of said apertures exhibits an open state and only one of said at least two illumination beams illuminates the detected scene; and
detecting a plurality of frames, each for a combination including a selected open one of said apertures and at least a selected illuminating one of said beams.

Remarks

Applicants have read and considered the Office Action dated August 27, 2002 and the references cited therein. Moreover, Applicants' Representative had an interview with Examiner An on January 30, 2003. Claims 1 and 20 are amended. Claims 5, 8, 18 & 19 are cancelled. Claims 1-4, 6-7, 9-17 & 20-21 are pending.

Applicants' Representatives conducted an interview with Examiner Shawn An on January 30, 2003 at the U.S. Patent Office. Applicants' Representatives thank Examiner An for the consideration and courtesy extended during the interview. Arguments regarding the obviousness rejections and the prior art were discussed and language proposed. Claims 1 and 20 were discussed. No resolution was reached, but it was agreed to submit proposed claim language in an Official Response for further consideration by the Examiner.

In the Office Action, the drawings were objected to. The specification has been amended to conform to the drawings as originally filed. Accordingly, reconsideration and withdrawal of the objections to the drawings are respectfully requested. Applicants assert that no new matter has been added.